

WHAT IS CLAIMED IS:

1. A process for making a disposable wearing article comprising a step of securing an elastic member of an  
5 elastically stretchable in a longitudinal direction to sheet material of said disposable wearing article using an adhesive, said process further comprising:

said step of securing the elastic member to said article includes a step of applying said adhesive to said elastic member  
10 on a peripheral surface thereof in such a manner as to make said adhesive draw substantially a continuous line and then securing said elastic member to said sheet material;

said continuous line drawing curved line on x - y plane defined by an x-axis which extends in the longitudinal direction  
15 and a y-axis being orthogonal to said x-axis and corresponding to a developed view of the peripheral surface of said elastic member so that said curved line advances in the direction of said x-axis so as to undulate about said x-axis in the direction of said y-axis; and

20 a height of the undulation being substantially equal to or larger than a circumferential length of said elastic member.

2. The process according to Claim 1, wherein said curved line

undulates, as viewed in said developed view, substantially with a uniform cycle and an amplitude in at least a partial section of said curved line in the direction of said x-axis.

5 3. The process according to Claim 1, wherein said elastic member is bonded with or without extension to said sheet material.

4. The process according to Claim 1, wherein said curved line  
10 includes, as viewed in said developed view, sections curved in an S-shape or an inverted S-shape.

5. The process according to Claim 1, wherein said wearing  
article is one of a disposable diaper, disposable training pants,  
15 a sanitary napkin, a disposable gown and disposable trousers.